

**Notice of Allowability**

Application No.

10/777,700

Examiner

CUONG H. NGUYEN

Applicant(s)

KIM, HEE JEONG

Art Unit

3661

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the authorization for examiner amendment received on 3/16/07.
2. ☒ The allowed claim(s) is/are 1-4, 6-7, 16-23, and 32-34; they are renumbered as claims 1-17; formal drawings are accepted.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

CUONG H. NGUYEN  
Primary Examiner  
Art Unit: 3661

***DETAILED ACTION***

1. This Office Action is the answer to the interview with attorney of the record (Mr. Richard C. Salfelder (Reg. No. 51,127), and a proposed amendment filed on 3/19/2007.
2. Claims 1-4, 6-7, 16-23, and 32-34 are pending; wherein claims 5, 8-15, and 24-31 are canceled.

***Examiner 's amendment:***

3. The authorization for this amendment was given by Mr. Salfelder (attorney for applicants) on 3/19/2007. Should the changes be unacceptable to applicants, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee. The pending claim 32 has been agreed to amend as follows:

Claim 32, line 2, inserting the following paragraph:

-- a GPS unit adapted to detect a present position of a vehicle based on information from at least one GPS satellite; --

***Allowable Subject Matter and Reason for Allowance***

4. Independent claims 1, 17, and 32 are allowable over closest available prior art of Kishi et al. (US Pat. 5,638,279), and Garmin (GPS) International because these references do not disclose or suggest a vehicle navigation system, comprising:
  - a controller is adapted to generate the indication of the vehicle's progression by one of gradually filling the arrow with color and gradually removing color from the arrow.

Kishi et al. disclose that a navigation system stores information relating to the vehicle course to a defined target point, with display of map information relating to the

actual vehicle position and its immediate surroundings. A discrete display indicates the vehicle position as it approaches an intersection from a point at a defined distance from the latter, the display terminated when the vehicle has passed the intersection. Pref. the discrete display uses a vehicle position marker which is indexed in step in the direction of the displayed intersection. The point at which the vehicle passes the intersection is determined from the vehicle travel direction variation.

Kishi et al. provides real-time display of vehicle position upon approaching each vehicle intersection.

Kishi et al.'s display format only includes moving the mark in increments relative to the map information toward a displayed intersection corresponding to the intersection being approached by the vehicle as the vehicle moves toward the intersection and maintaining the mark at the displayed intersection until the vehicle has passed the intersection.

Garmin International's nuvi models do not disclose about gradually filling a direction arrow with color, and gradually removing said color from said arrow in a navigation system.

5. Claims 2-4, 6-7, and 16 are allowable because they are dependent on allowed claim 1.

Claims 18-23 are allowable because they are dependent on allowed claim 17.

Claims 33-34 are allowable because they are dependent on allowed claim 32.

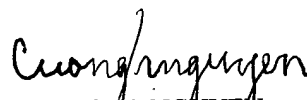
### ***Conclusion***

6. Claims 1-4, 6-7, 16-23, and 32-34 are patentable. They are renumbered as claims 1-17.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CUONG H. NGUYEN whose telephone number is 571-272-6759 (email address: cuong.nguyen@uspto.gov). The examiner can normally be reached on 9:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, THOMAS G. BLACK can be reached on 571-272-6956. The Rightfax number for the examiner where this application is assigned is 571-273-6759.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
CUONG H. NGUYEN  
Primary Examiner  
Art Unit 3661